L Number	Hits	Search Text	DB	Time stamp
1	2	6400352.pn.	USPAT;	2004/06/05 11:51
			US-PGPUB;	
	,		EPO; JPO;	
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2	1	6400352.pn. and (audi\$5 sound visual\$4)	USPAT;	2004/06/05 11:54
			US-PGPUB;	
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3	1	6400352.pn. and (audi\$5 sound visual\$4) with (response feedback) with	USPAT;	2004/06/05 12:00
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4	89791	(audi\$5 sound visual\$4) with (response indicat\$4 signal feedback) same	IBM_TDB	2004/06/05 12:06
7	0,7,71	(input mouse joystick mice manipulat\$4)	USPAT;	2004/06/05 12:06
		(mput mouse joystick mice manipulation)	US-PGPUB;	
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5	47118	((audi\$5 sound visual\$4) with (response indicat\$4 signal feedback) same	USPAT;	2004/06/05 12:09
		(input mouse joystick mice manipulat\$4)) and (modify\$4 alter\$4 chang\$4)	US-PGPUB;	
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6	14400	(((audi\$5 sound visual\$4) with (response indicat\$4 signal feedback) same	USPAT;	2004/06/05 12:10
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7	68	((((audi\$5 sound visual\$4) with (response indicat\$4 signal feedback) same	USPAT;	2004/06/05 12:13
		(input mouse joystick mice manipulat\$4)) and (modify\$4 alter\$4 chang\$4)	US-PGPUB;	200 000000 12:15
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8	106	((((audi\$5 sound visual\$4) with (response indicat\$4 signal feedback) same	LICDAT.	2004/06/05 12:14
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	j	(input mouse joystick mice manipulat\$4)) and (modify\$4 alter\$4 chang\$4)	US-PGPUB;	
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12	1636	345/156,163,701,702,158,166,170.ccls. and (control input) near device and	USPAT;	2004/06/05 12:44
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			EPO; JPO;	
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13	311	463/30,35,37;340/7.58-7.59,407.1-407.2,815.4.ccls. and (mouse joystick) and (control input\$4) near5 device	USPAT;	2004/06/05 12:46
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14	32	((345/156,163,701,702,158,166,170.ccls. and (control input) near device and	USPAT;	2004/06/05 12:47
		(mouse joystick)) (463/30,35,37;340/7.58-7.59,407.1-407.2,815.4.ccls. and (US-PGPUB;	
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15	56	((345/156,163,701,702,158,166,170.ccls. and (control input) near device and	USPAT;	2004/06/05 12:47
		(mouse joystick)) (463/30,35,37;340/7.58-7.59,407.1-407.2,815.4.ccls. and (US-PGPUB;	
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16	10	(((345/156,163,701,702,158,166,170.ccls. and (control input) near device	USPAT;	2004/06/05 12:49
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17	2	((((345/156,163,701,702,158,166,170.ccls. and (control input) near device	USPAT;	2004/06/05 12:50
		and (mouse joystick)) (463/30,35,37;340/7.58-7.59,407.1-407.2,815.4.ccls.	US-PGPUB;	
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Relevance scale

Best 200 shown Drag-and-drop versus point-and-click mouse interaction styles for children

Kori M. Inkpen March 2001 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 8 Issue 1

Full text available: pdf(203.66 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

This research investigates children's use of two common mouse interaction styles, dragand-drop and point-and-click, to determine whether the choice of interaction style impacts children's performance in interactive learning environments. The interaction styles were experimentally compared to determine if either method was superior to the other in terms of speed, error rate, or user preference, for children. The two interaction styles were also compared based on children's achievement and m ...

Keywords: children, computers in education, drag-and-drop, electronic games, gender, input techniques, interaction styles, interface design, mouse interaction, point-and-click

The audible web: auditory enhancements for Mosaic

Michael C. Albers, Eric Bergman

May 1995 Conference companion on Human factors in computing systems

Full text available: pdf(243.56 KB) Additional Information: full citation, references, citings, index terms

3 Audio enhanced 3D interfaces for visually impaired users

Stephen W. Mereu, Rick Kazman

January 1997 ACM SIGCAPH Computers and the Physically Handicapped, Issue 57

Full text available: pdf(652.72 KB) Additional Information: full citation, abstract, index terms

Three dimensional computer applications such as CAD packages are often difficult to use because of inadequate depth feedback to the user. It has, however, been shown that audio feedback can help improve a user's sense of depth perception. This paper describes an experiment which evaluates the use of three different audio environments in a 3D task undertaken by visually impaired users. The three audio environments map tonal, musical, and orchestral sounds to an (x, y, z) position in a 3D environm ...

Keywords: 3D interface, auditory interface, disabilitt access, user interface

Behavioral Aspects of Text Editors



David W. Embley, George Nagy January 1981 ACM Computing Surveys (CSUR), Volume 13 Issue 1

Full text available: pdf(3.44 MB) Additional Information: full citation, references, citings

5 Pressure widgets

Gonzalo Ramos, Matthew Boulos, Ravin Balakrishnan

April 2004 Proceedings of the 2004 conference on Human factors in computing

Full text available: pdf(404.08 KB) Additional Information: full citation, abstract, references, index terms

Current user interface widgets typically assume that the input device can only provide x-y position and binary button press information. Other inputs such as the continuous pressure data provided by styluses on tablets are rarely used. We explore the design space of using the continuous pressure sensing capabilities of styluses to operate multi-state widgets. We present the results of a controlled experiment that investigates human ability to perform discrete target selection tasks by varying a ...

Keywords: isometric input, pen-based interfaces, pressure input, pressure widgets

Weasel: a computer based system for providing non-visual access to music notation B. P. Challis, A. D. N. Edwards

January 2000 ACM SIGCAPH Computers and the Physically Handicapped, Issue 66

Full text available: 📆 pdf(877.59 KB) Additional Information: full citation, abstract, references

Although we constantly rely on touch and sound on a daily basis, product designers rarely monopolise the potential for auditory and, in particular, tactile feedback. This is particularly true within computer interface design where there is still a trend to work with highly graphical interfaces using only a mouse and a keyboard for input. This kind of kind of reliance on visual interaction actively prevents blind people from using many common computer applications. At the University of York we ha ...

7 JVOX

David G. Smith, Joey K. Tuttle

September 1993 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on APL, Volume 24 Issue 1

Full text available: pdf(728.41 KB) Additional Information: full citation, index terms

Full Papers: Navigational blocks: navigating information space with tangible media Ken Camarata, Ellen Yi-Luen Do, Brian R. Johnson, Mark D. Gross January 2002 Proceedings of the 7th international conference on Intelligent user interfaces

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(623.38 KB)

The Navigational Blocks project demonstrates a tangible user interface that facilitates retrieval of historical stories in a tourist spot. Orientation, movement, and relative positions of physical Blocks support visitor navigation and exploration in a virtual gallery. The Navigational Blocks system provides a physical embodiment of digital information through tactile manipulation and haptic feedback. The simple cubic form of the Blocks is easy to understand and therefore easy to use to manipulat ...

Keywords: database query, information navigation, tangible interface

Graphic StoryWriter: an interactive environment for emergent storytelling Karl E. Steiner, Thomas G. Moher



June 1992 Proceedings of the SIGCHI conference on Human factors in computing systems

Full text available: pdf(871.68 KB)

Additional Information: full citation, abstract, references, citings, index terms

The Graphic StoryWriter (GSW) is an interactive system that enables its users to create structurally complete stories through the manipulation of graphic objects in a simulated storybook. A rule-based story engine manages character and prop interaction, guides story development, and generates text. Through the simple interface and story writing engine, the Graphic StoryWriter provides an environment for early readers to learn about story structures, to experience the relationship between pi ...

Keywords: educational software, story grammars, user interaction

10 Audio enhanced 3D interfaces for visually impaired users

Stephen W. Mereu, Rick Kazman

April 1996 Proceedings of the SIGCHI conference on Human factors in computing systems: common ground

Full text available: pdf(992.02 KB) html(26.91 KB)

Additional Information: full citation, references, citings, index terms

Keywords: 3D interface, auditory interface, disability access, user interface

11 Accesible interfaces: Auditory and tactile interfaces for representing the visual effects on the web



Chieko Asakawa, Hironobu Takagi, Shuichi Ino, Tohru Ifukube

July 2002 Proceedings of the fifth international ACM conference on Assistive technologies

Full text available: pdf(791.55 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we describe auditory and tactile interfaces to represent visual effects nonvisually for blind users, allowing intuitive recognition of visual content that appears on the Web. This research examines how visual effects could be recognized by blind subjects using the senses of hearing and touch, aiming at integrating the results into a practical system in the future. As an initial step, two experiments were performed, one for sonification and tactilization of a page overview based on ...

Keywords: auditory interface, blind, nonvisual, sonification, tactile interface, tactilization

12 Human-machine perceptual cooperation

Francis K. H. Quek, Michael C. Petro

May 1993 Proceedings of the SIGCHI conference on Human factors in computing systems

Full text available: pdf(972.26 KB) Additional Information: full citation, abstract, references, index terms

The Human-Machine Perceptual Cooperation (HMPC) paradigm combines a human operator's high level reasoning with machine perception to solve spatio-perceptual intensive problems. HMPC defines two channels of interaction: the focus of attention (FOA) by which the user directs the attention of machine perception, and context. As the user moves the FOA across a display via a pointing device, a smart cursor operates proactively on the data, highl ...

Keywords: document image analysis, human-computer interaction, map conversion,

shared perception, telerobotics

13 A specification language for direct-manipulation user interfaces

Robert J. K. Jacob

October 1986 ACM Transactions on Graphics (TOG), Volume 5 Issue 4

Full text available: pdf(2.75 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A direct-manipulation user interface presents a set of visual representations on a display and a repertoire of manipulations that can be performed on any of them. Such representations might include screen buttons, scroll bars, spreadsheet cells, or flowchart boxes. Interaction techniques of this kind were first seen in interactive graphics systems; they are now proving effective in user interfaces for applications that are not inherently graphical. Although they are often easy to learn and ...

14 Learning technologies: Modeling educational software for people with disabilities:



theory and practice

Nelson Baloian, Wolfram Luther, Jaime Sánchez

July 2002 Proceedings of the fifth international ACM conference on Assistive technologies

Full text available: pdf(1.15 MB)

Additional Information: full citation, abstract, references, index terms

Interactive multimedia learning systems are not suitable for people with disabilities. They tend to propose interfaces which are not accessible for learners with vision or auditory disabilities. Modeling techniques are necessary to map real world experiences to virtual worlds by using 3D auditory representations of objects for blind people and visual representations for deaf people. In this paper we describe common aspects and differences in the process of modeling the real world for application ...

Keywords: modeling methodologies, sensory disabilities, tutoring systems, user adapted interfaces

15 Section 06: objects in space: ComTouch: design of a vibrotactile communication device



Angela Chang, Sile O'Modhrain, Rob Jacob, Eric Gunther, Hiroshi Ishii June 2002 Proceedings of the conference on Designing interactive systems: processes,

practices, methods, and techniques Full text available: pdf(4.16 MB)

Additional Information: full citation, abstract, references, index terms

We describe the design of ComTouch, a device that augments remote voice communication with touch, by converting hand pressure into vibrational intensity between users in realtime. The goal of this work is to enrich inter-personal communication by complementing voice with a tactile channel. We present preliminary user studies performed on 24 people to observe possible uses of the tactile channel when used in conjunction with audio. By recording and examining both audio and tactile data, we found ...

Keywords: communication, haptic interpersonal, remote communication, tactile communication, tangible telepresence, tangible user interface, touch-vibration mapping, vibrotactile

16 Human-Machine perceptual cooperation



January 1993 Proceedings of the conference on Human factors in computing systems

Full text available: pdf(1.03 MB) Additional Information: full citation, references, index terms



Keywords: document image analysis, human-computer interaction, map conversion, shared perception, telerobotics

17 Capturing, structuring, and representing ubiquitous audio

Debby Hindus, Chris Schmandt, Chris Horner

October 1993 ACM Transactions on Information Systems (TOIS), Volume 11 Issue 4

Full text available: pdf(1.78 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Although talking is an integral part of collaboration, there has been little computer support for acquiring and accessing the contents of conversations. Our approach has focused on ubiquitous audio, or the unobtrusive capture of speech interactions in everyday work environments. Speech recognition technology cannot yet transcribe fluent conversational speech, so the words themselves are not available for organizing the captured interactions. Instead, the structure of an int ...

Keywords: audio interactions, collaborative work, multimedia workstation software, semistructured data, software telephony, stored speech, ubiquitous computing

18 Issues and techniques in touch-sensitive tablet input

William Buxton, Ralph Hill, Peter Rowley

July 1985 ACM SIGGRAPH Computer Graphics, Proceedings of the 12th annual conference on Computer graphics and interactive techniques, Volume 19 Issue 3

Full text available: pdf(3.13 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Touch-sensitive tablets and their use in human-computer interaction are discussed. It is shown that such devices have some important properties that differentiate them from other input devices (such as mice and joysticks). The analysis serves two purposes: (1) it sheds light on touch tablets, and (2) it demonstrates how other devices might be approached. Three specific distinctions between touch tablets and one button mice are drawn. These concern the signaling of events, multiple point s ...

Keywords: touch sensitive input devices

19 Nomadic radio: speech and audio interaction for contextual messaging in nomadic environments

Nitin Sawhney, Chris Schmandt

September 2000 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 7 Issue 3

Full text available: pdf(648.76 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Mobile workers need seamless access to communication and information services while on the move. However, current solutions overwhelm users with intrusive interfaces and ambiguous notifications. This article discusses the interaction techniques developed for Nomadic Radio, a wearable computing platform for managing voice and text-based messages in a nomadic environment. Nomadic Radio employs an auditory user interface, which synchronizes speech recognition, speech synthesis, nonspeech audio ...

Keywords: adaptive interfaces, contextual interfaces, interruptions, nonspeech audio, notifications, passive awareness, spatial listening, speech interaction, wearable computing

20

Towards usable VR: an empirical study of user interfaces for immersive virtual

environments

Robert W. Lindeman, John L. Sibert, James K. Hahn

May 1999 Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit

Full text available: pdf(1.25 MB)

Additional Information: full citation, references, citings, index terms

Keywords: 3D user interfaces, bimanual interaction, passive-haptic feedback, virtual environments, virtual reality

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